

22nd & 23rd

December 2021

Chiang Mai, Thailand

TENTATIVE

The 3rd International Conference on Renewable Energy,
Sustainable Environmental & Agri-Technological and Innovation

ZOOM MEETING INSTRUCTION FOR PRESENTERS

BASIC SESSION STRUCTURE:

- **The schedule in this abstract book uses Thailand Standard Time (UTC +8:00)**
- **15 minutes before the Session:** The Session Host will start the designated google meet meeting.
- **2 minutes before the Session:** The Session Host will start the recording.
- **1 minute before the Session:** The Session Chair introduces the session.
- **Beginning of the Session:** The Session Chair will introduce the presenter. The talk will be presented by the participants or using the video recording submitted by the presenter.
- **The duration of a presentation as follow:**

Participant	Presentation duration	Q&A duration
Presenter	8 – 10 minutes	2 - 4 minutes

HOW TO JOIN YOUR SESSION:

An invitation email will be sent before the session or can be referred in this abstract book.

Using the invitation link, you can join your Zoom session by clicking on the link to join the meeting provided in this file or in the **WhatsApp** group.

BEFORE THE SESSION:

1. Please join the session at least 10 minutes in advance.
2. Please test your microphone once joined so that the session can start on time.
3. Please mute your microphone (when you are not presenting) so that all attendees can focus on the talk.

DURING YOUR PRESENTATION SESSION:

1. Please unmute your microphone.
2. We highly recommend that you turn on your video to engage with the attendees during your presentation. This can be done by selecting video connection when joining your Zoon session.
3. To present your slide, click on “Present now” > click on “A window” > select your presentation > click “Share”



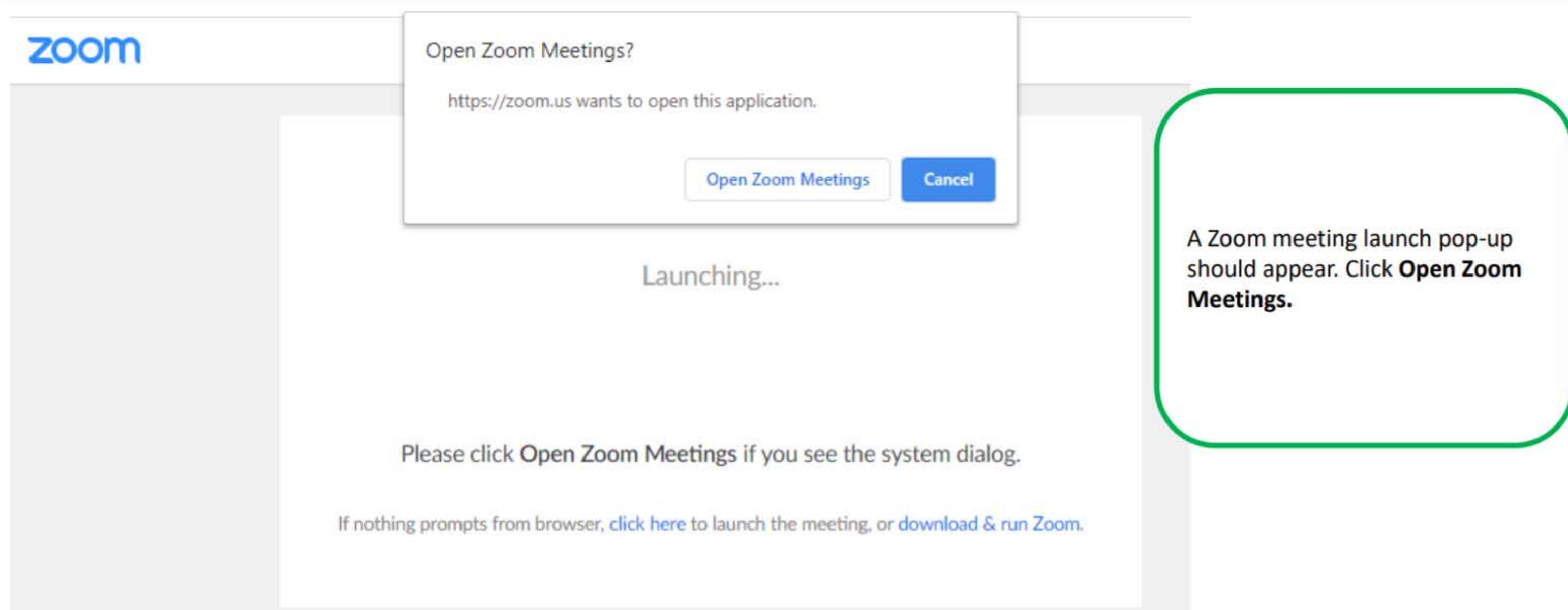


Figure 1

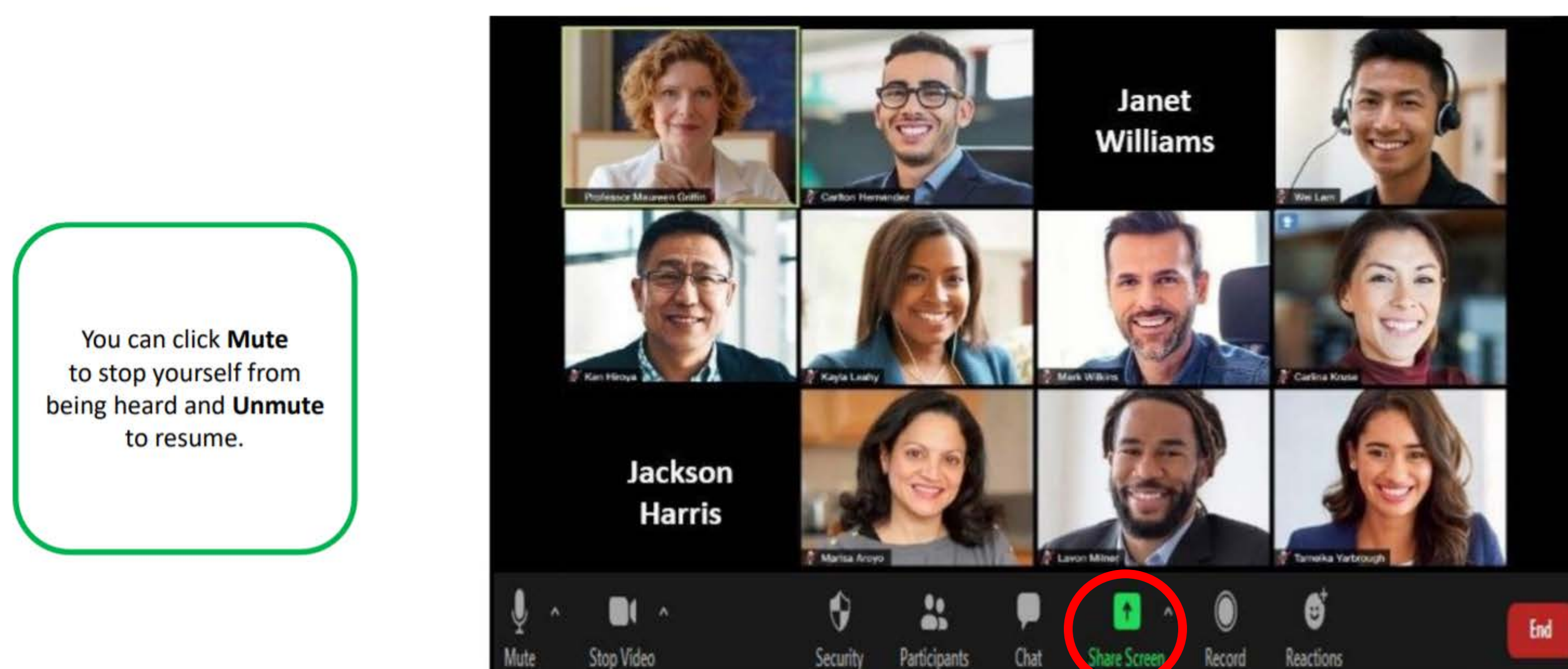


Figure 2

HOW TO ASK QUESTION

1. Write your question in the **“Chat Panel”**.
2. Introduce your name and your institution/university followed by your question.
3. The Session Chair will take chat questions from the Q&A panel during the presentation
4. The Session Chair will read the questions to the presenting author during the Q&A period.

Make sure the time is strictly adhered to and does not extended past the allocated time.

ORAL PRESENTATION SCHEDULE

WEDNESDAY 22 DECEMBER 2021

Keynote Speakers

 <https://us02web.zoom.us/j/85617026823?pwd=dHowQjN6M2Vla1NaQUpuUFdwbnlvQT09>
Meeting ID: 856 1702 6823 Passcode: 721703

Oral Presentation Day 1

13:15-13.30	Parallel Session 1 RE1  https://chat.whatsapp.com/BeSjsa4mdseBZyYoFxTvRC  https://zoom.us/j/97029945352?pwd=RDQ5N2JLb1REVTFEWEZnd1cwQnhRZz09 Meeting ID: 970 2994 5352 Passcode: 335436
13:30-13.45	Parallel Session 2 RE2  https://chat.whatsapp.com/LgtI9aOLF0wCyV48a4tJY5  https://us02web.zoom.us/j/88337619334?pwd=ck5LamFOMGh1bGdQenh1bXR RM3ZUUT09 Meeting ID: 883 3761 9334 Passcode: 388896
13.45-14.00	Parallel Session 3 RE3  https://chat.whatsapp.com/HOillHziX4bHsO1uYFhS2G  https://zoom.us/j/91768159722?pwd=ekV2MS90RUhmUzZBS3V0Y3NQdlh6dz09 Meeting ID: 917 6815 9722 Passcode: 393857
14.00-14.15	Parallel Session 4 SET1  https://chat.whatsapp.com/GhHqYOI5VDUDXUccukTTjG  https://zoom.us/j/93339120308?pwd=MThSRzdXZVZPTUUrSE5mTjdHTmVyd z09 Meeting ID: 933 3912 0308 Passcode: 787441
14.15-14.30	Parallel Session 5 SET2  https://chat.whatsapp.com/EPsOYYoDwaoAsJzdxVu9f  https://us02web.zoom.us/j/88394221087?pwd=dFp2TGRXZVhLWWkzYVdtTGRuV VVaUT09 Meeting ID: 883 9422 1087 Passcode: 392644
14.30-14.45	Parallel Session 6 ATI1  https://chat.whatsapp.com/K6n1CswxoXNLAu1qdqsaWL  https://us02web.zoom.us/j/82277962173?pwd=c0pobkFqeGR3ajVYWmVmUmM4dFJ4QT09 Meeting ID: 822 7796 2173 Passcode: 386047
14.45-15.00	Parallel Session 7 ATI2  https://chat.whatsapp.com/HyjDqi0mmu255Eh5D7ZvPr  https://us02web.zoom.us/j/89619527570?pwd=aUpERjBqdEhqWjJKdEo4TkQrQTNIUT09 Meeting ID: 896 1952 7570 Passcode: 658756
15.00-15.15	Parallel Session 8 ATI3  https://chat.whatsapp.com/JeG6dYCy1LoAu7GvLPSrEM  https://us02web.zoom.us/j/84166101137?pwd=WE dEMFcvejREMDBLS2FuWGoxUmltQT09 Meeting ID: 841 6610 1137 Passcode: 021752



"Go Green, Go Eco and Go Smart"

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ORAL PRESENTATION SCHEDULE

THURSDAY 23 DECEMBER 2021

Keynote Speakers

<https://us02web.zoom.us/j/82419078514?pwd=Tz dj Q1 Rud 21 EZ 3 d 0 K 3 N xa Ud 4 L 3 B m Z z 0 9>

Meeting ID: 824 1907 8514 Passcode: 616238

Oral Presentation Day 2

Parallel Session 9 RE4

13:15-13.30

<https://chat.whatsapp.com/BeSjsa4mdseBZyYoFxTvRC>

<https://zoom.us/j/91916382977?pwd=R3BvN2ZoMWFmRGNwTE9VbFJNTHp6Zz09>

Meeting ID: 919 1638 2977 Passcode: 270075

Parallel Session 10 RE5

13:30-13.45

<https://chat.whatsapp.com/LgtI9aOLF0wCyV48a4tJY5>

<https://us02web.zoom.us/j/81246177789?pwd=K3ByM2lVV3VmSEJlSk tWRlZRRWhQQT09>

Meeting ID: 812 4617 7789 Passcode: 415626

Parallel Session 11 RE6

13.45-14.00

<https://chat.whatsapp.com/HOillHziX4bHsO1uYFhS2G>

<https://zoom.us/j/91768159722?pwd=ekV2MS90RUhmUzZBS3V0Y3NQdlh6dz09>

Meeting ID: 917 6815 9722 Passcode: 393857

Parallel Session 12 SET3

14.00-14.15

<https://chat.whatsapp.com/GhHqYOI5VDUDXUccukTTjG>

<https://zoom.us/j/92035519170?pwd=WVc5YktoSXZuV0l0NU8xazRVN1JzZz09>

Meeting ID: 920 3551 9170 Passcode: 949958

Parallel Session 13 SET4

14.15-14.30

<https://chat.whatsapp.com/EPsOYYoDwaoAsJzdxVu9f>

<https://us02web.zoom.us/j/86452746335?pwd=ZWVTbHIEUzE2SG1BcWNndjJBSjNLZz09>

Meeting ID: 864 5274 6335 Passcode: 811048

Parallel Session 14 AT14

14.30-14.45

<https://chat.whatsapp.com/K6n1CswxoXNLAu1qdqsaWL>

<https://us02web.zoom.us/j/85268769861?pwd=aWptNkY0bmNSWFg1K2k3ZlFnOCs2UT09>

Meeting ID: 852 6876 9861 Passcode: 099806

Parallel Session 15 AT15

14.45-15.00

<https://chat.whatsapp.com/HyjDqi0mmu255Eh5D7ZvPr>

<https://us02web.zoom.us/j/87816196689?pwd=TTZtNGFpOVVHZlFwL2RCYlV3QWVlZz09>

Meeting ID: 878 1619 6689 Passcode: 760704

Parallel Session 16 AT16

15.00-15.15

<https://chat.whatsapp.com/JeG6dYCy1LoAu7GvLPSrEM>

<https://us02web.zoom.us/j/83270498436?pwd=Ky9qcnZMOEHJa2NGeEx4dE5VUFd5QT09>

Meeting ID: 832 7049 8436 Passcode: 084880



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i-RESEAT SPEAKERS AGENDA

Day-1 DECEMBER 22nd 2021 (Wednesday)

Time	 https://us02web.zoom.us/j/85617026823?pwd=dHowQjN6M2Vla1NaQUpuUFdwbnlvQT09 Meeting ID: 856 1702 6823 Passcode: 721703		
9:45-10:00	Participants join Zoom		
10:00-10:30	Opening ceremony	Welcome Address by: - Assis. Prof. Dr. Natthawud Dussadee, Vice President, Maejo University, Thailand Inauguration talk by Prof. Dr. Ashok Pandey (Honorary chair), CSIR-IITR, India - Assoc. Prof. Dr.Vinoth Kumar Ponnusamy, Kaohsiung Medical University, Taiwan (Co-host) - Assoc. Prof. Dr. Gopalakrishnan Kumar, University of Stavanger, Norway (Co-host) Opening Report by: Dr. Rameshprabu Ramaraj, Assis. Dean, School of Renewable Energy, Maejo University, Thailand Opening Remarks by: Assoc. Prof. Dr. Weerapon Thongma, President, Maejo University, Thailand	Maejo University Thailand
10:30-10:40	Coffee/tea break	Exhibition	Chair – Prof. Gopal/Vinoth
10:40-11:10	Plenary Speaker (P1)	Prof. Dr. Ashok Pandey Institute: Centre for Innovation and Translational Research CSIR-Indian Institute of Toxicology Research, Lucknow Title: Emerging applications of biochar for agricultural and environmental sustainability	India
11:10 - 11:35	Keynote Speaker (K1)	Prof. Dr. Nobutaka Ito Institute: Maejo University Title: Thinking about a decarbonized society	Thailand
11:35 - 12:00	Keynote Speaker (K2)	Prof. Dr. Sang-Hyoun Kim Institute: Yonsei University, Title: TBD	South Korea
12:00-12:25	Keynote Speaker (K3)	Prof. Dr. Satoshi Kaneco Institute: Mie University Title: TBD	Japan
12:25- 13:00	Lunch break	Exhibition	Chair – Prof. Pugal
13:00 - 13:25	Keynote Speaker (K4)	Prof. Dr. Vladimir Strezov Institute: Macquarie University Title: TBD	Australia
13:25 – 13:50	Keynote Speaker (K5)	Assoc. Prof. Dr. Niwooti Whangchai Institute: Maejo University Title: TBD	Thailand
13:50- 14:15	Keynote Speaker (K6)	Dr. Francesco Petracchini Institute: CNR - Institute of Atmospheric Pollution Research, Rome Title: TBD	Italy
14:15 – 14:35	Invited speaker (I-1)	Assoc. Prof. Dr. Cheng-Chin Kui Institute: Khalifa University Title: TBD	United Arab Emirates
14:35- 14:55	Invited speaker (I-2)	Asst. Prof. Dr. K. J. Senthil Kumar Institute: National Chung-Hsing University Title: Sustainable Utilization and Ex-Situ Conservation strategies for <i>Antrodia cinnamomea</i> : An Endemic Medicinal Mushroom in Taiwan	Taiwan
14:55-15:05	Coffee/tea break	Exhibition	Chair - Prof. Keng-Tung Wu
15:05-15:30	Keynote Speaker (K7)	Prof. Dr. Eldon R. RENE Institute: Delft Institute for Water Education DA Delft Title: TBD	The Netherlands
15:30-15:55	Keynote Speaker (K8)	Prof. Dr. Luciane Maria Colla Institute: University of Passo Fundo Title: Use of microalgae to effluent valuation and production of bioethanol and high added value products	Brazil
15:55-16:20	Keynote Speaker (K9)	Prof. Dr. Rajesh Institute: Central University of Tamilnadu, Tiruvarur Title: TBD	India
16:20 – 16:40	Invited speaker (I-3)	Prof. Dr. Grzegorz Piechota Institute: GPCHEM Laboratory Title: TBD	Poland
16:40 – 17:00	Invited speaker (I-4)	Assoc. Prof. Dr. Sermkiat Jomjunyong Institute: Chiang Mai University Title: TBD	Thailand
END OF SESSION			



“Go Green, Go Eco and Go Smart”

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i-RESEAT SPEAKERS AGENDA

Day-2 DECEMBER 23rd 2021 (Thursday)

Time		 https://us02web.zoom.us/j/82419078514?pwd=TzdjQ1Rud21EZ3d0K3NxaUd4L3BmZz09 Meeting ID: 824 1907 8514 Passcode: 616238	
08:45 – 09:00		Participants join Zoom	Chair – Prof. Ramesh/Vinoth
9.00-9.30	Keynote Speaker (K10)	Prof. Dr. Yusuf Chisti Institute: Massey University Title: Microalgae for sustainable production: Emerging trends and innovations	New Zealand
9.30-10.00	Keynote Speaker (K11)	Prof. Dr. Cheng-Di Dong Institute: National Kaohsiung University of Science and Technology Title: Application of biochar for the remediation of polluted marine sediments	Taiwan
10.00-10.20	Invited speaker (I-5)	Prof. Dr. Tomoaki Itayama Institute: Nagasaki University Title: TBD	Japan
10.20-10.40	Invited speaker (I-6)	Prof. Dr. Doralyn S. Dalisay Institute: Center for Chemical Biology and Biotechnology, University of San Agustin Title: TBD	Philippines
10.40-10.50	Coffee/tea break	Exhibition	Chair – Prof. Vinoth/Natama
10.50-11:20	Keynote Speaker (K12)	Prof. Dr. Yao-Tung Lin Institute: National Chung-Hsing University Title: Environmental-Friendly Multifunction Biochar Mulch derived Agriculture Waste for Carbon Sequestration	Taiwan
11.20 - 11.40	Invited speaker (I-7)	Assoc. Prof. Dr. Milly, Mei-Ling Yeh Institute: Feng Chia University Title: TBT	Taiwan
11.40 - 12.00	Invited speaker (I-8)	Asst. Prof. Dr. Balasubramanian Paramasivan Institute: National Institute of Technology Rourkela, Odisha Title: TBT	India
12.00-12.20	Invited speaker (I-9)	Prof. Dr. Gaanty Pragas Maniam Institute: Universiti Malaysia Pahang Title: TBT	Malaysia
12.25- 13.00	Lunch break	Exhibition	Chair – Prof. Niwooti
13.00 - 13.25	Keynote Speaker (K13)	Prof. Dr. Yuan-Chung (Oliver) Lin Ph.D. Institute: National Sun Yat-sen University Title: Reducing pollutant emissions and promoting energy efficiency from diesel engines fueled with biodiesel and emulsified diesel/biodiesel	Taiwan
13.25 – 13.50	Keynote Speaker (K14)	Assoc. Prof. Dr. Angela T. Alleyne Institute: The University of the West Indies, Cave Hill Campus Title: PCR amplification and Next-generation sequencing in plant disease diagnosis of Cassava Superelongation disease in the Caribbean	Barbados
13.50- 14.10	Invited speaker (I-10)	Prof. Dr. Keng-Tung Wu Institute: National Chung-Hsing Mai University Title: TBT	Taiwan
14.10 – 14.30	Invited speaker (I-11)	Assoc. Prof. Dr. Andrew, Chen-Yeon CHU Institute: Feng Chia University Title: TBT	Taiwan
14.30- 14.50	Invited speaker (I-12)	Dr. Ashokkumar Veeramuthu Institute: Chulalongkorn University Title: TBT	Thailand
14.50-15.00	Coffee/tea break	Exhibition	Chair – Prof. Popuri
15.00-15.30	Plenary Speaker (P2)	Prof. Dr. Martin Kaltschmitt Institute: Hamburg University of Technology (TUHH) Title: Fuel related measures to reduce particulate matter from the combustion of solid biofuels - Possibilities and limitation	Germany
15.30-15.55	Keynote Speaker (K15)	Prof Dr. Wei-Hsin Chen Institute: National Cheng-Kung University Title: TBT	Taiwan
15.55-16.15	Invited speaker (I-13)	Assoc. Prof. Dr. Paule Salvin Institute: Schoelcher campus Title: Mangrove sediment, a great inoculum for bioelectrochemical systems	France
16.15 – 16.35	Invited speaker (I-14)	Prof. Dr. Jennifer Ann Harikrishna Institute: University of Malaya Title: TBT	Malaysia
CLOSING CEREMONY			

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AGENDA ORAL SESSION CHAIRS

WEDNESDAY 22 DECEMBER 2021

Oral presentation	Session 1 RE1	Session 2 RE2	Session 3 RE3	Session 4 SET1	Session 5 SET 2	Session 6 ATI1	Session 7 ATI2	Session 8 ATI3
Chair	Prof. Dr. Deepanraj B	Prof. Dr. Wigneshkumar	Prof. Dr. Puranjan Mishra	Prof. Dr. Bunushree Behera	Prof. Dr. Palanivel Velmurugan	Prof. Dr. M.S.A. Muthukumar Nadar	Prof. Dr. M. Pradthap	Dr. Bharathi Wali
Co-Chair	Prof. Dr. Gaanty Pragas Maniam	Prof. Dr. Natanamurugan G.	Prof. Dr. Sumit Yadav	Dr. Nageswari	Prof. Dr. Vinayam Mohanvel	Prof. Tipsukhon Pimpimol	Prof. Dr. Renuga Devi	Prof. Dr. Buncha Tongmee
13:15-13.30	107	114	130	210	228	301	306	329
13:30-13.45	105	142	115	202	215	315	309	321
13.45-14.00	141	121	120	223	219	333	310	328
14.00-14.15	138	129	102	209	204	334	311	345
14.15-14.30	124	144	123	206	214	302	312	352
14.30-14.45	139	119	127	220	224	303	313	358
14.45-15.00	125	135	134	208	203	304	314	356
15.00-15.15	122	131	147	226	218	305	316	327

THURSDAY 23 DECEMBER 2021

Oral presentation	Session 9 RE4	Session 10 RE5	Session 11 RE6	Session 12 SET3	Session 13 SET4	Session 14 ATI4	Session 15 ATI5	Session 16 ATI6
Chair	Prof. Dr. Manoj Kumar	Prof. Dr. Ravinder Kumar	Prof. Dr. Aradhya K. Math	Prof. Dr. Nobutaka Ito	Prof. Dr. Satyavathi	Prof. Dr. Palanivel Velmurugan	Dr. Wolfram Spreer	Prof. Dr. Sumit Yadav
Co-Chair	Prof. Dr. Panupat Chaiworn	Prof. Dr. Sharanjit Singh	Prof. Dr. Chen-Yeon Chu	Prof. Dr. K. J. Senthil Kumar	Prof. Vinoth Kumar Ponnusamy	Prof. Dr. Balasubramanian	Dr. Krittiya Tongkoom	Dr. Prakash
13:15-13.30	143	109	240	212	319	326	355	339
13:30-13.45	128	161	116	126	320	332	359	369
13.45-14.00	132	238	166	229	318	344	360	370
14.00-14.15	149	164	157	145	217	347	361	335
14.15-14.30	167	149	165	360	318	348	362	337
14.30-14.45	239	140	242	148	214	349	363	340
14.45-15.00	151	222	137	370	000	353	364	330
15.00-15.15	263	341	133	269	302	354	366	331



ORAL PRESENTATION SCHEDULE

WEDNESDAY 22 DECEMBER 2021

Code	Parallel Session 1 RE1  https://chat.whatsapp.com/BeSjsa4mdseBZyYoFxTvRC	Chair: Host:	
	Presentation Title	Presenter	Country
107	Biohydrogen production in a packed-filter bioreactor (PFBR) using sulfite-rich organic wastewater obtained from a washing process of beverage manufacture	Dr. Chen-Yeon Chu	TWN
105	Rubber seed (<i>Hevea brasiliensis</i>) oil extraction: Different solvent polarity & moisture content, correlation between different extraction methods	Dr. Siti Norhafiza Mohd Khazaai	MYS
141	Biogas Production Potential from Food Waste by Subcritical Water Hydrolysis Technology	Dr. Chen-Yeon Chu	TWN
138	Optimization of convective tray drying process parameters of green banana slice using response surface methodology and its characterization.	Miss Meenatai G. Kamble	IND
124	Improving the heating value of rice straw pellets using spent coffee and tea grounds	Dr. Weeranut Intagun	THA
139	Microalgal biofuels production with diluted human urine: Lifecycle assessment of impacts of combinatorial pathways	Miss Bunushree Behera	IND
125	Sustainable natural rubber latex (NRL) blended isocyanate crosslinked starch bio-based adhesive for eco-friendly plywood.	Miss Triveni Soubam	MYS
122	Characterization of Biodiesel from Edible Vegetable Oil produced by Ultrasound	Dr. Raul Garcia Garcia	MEX

Code	Parallel Session 2 RE2  https://chat.whatsapp.com/LgtI9aOLF0wCyV48a4tJY5	Chair: Host:	
	Presentation Title	Presenter	Country
114	Heterogeneous catalyzed transesterification of cottonseed oil accelerated by electric field	Mr. Piyaphong Yongphet	THA
142	Probing the selectivity of ZSM-5-supported bimetallic catalysts for ex-situ bio-oil upgrading	Dr. Vladimir Strezov (Ravinder Kumar)	AUS
121	Exploring the evolution, trends and scopes of microalgal biochar through scientometrics	Miss. Nageshwari Krishnamoorthy	IND
129	Estimation of chemical and physical properties of torrefied biomass briquette from moving bed reactor	Dr. Nigran Homdoun	THA
144	Utilization of Tigar Grass in the Production of Bioethanol from Fermentable Sugar after Pretreatment and Hydrolysis Processes	Mr. Numchok manmai	TWN
119	Acetylene Powered Thermal Power Plant Boiler	Mr. Debshilpi Patra	IND
135	Biopolymer Blend Proton Exchange Membranes Based on Chitosan and Locust Bean Gum for Bio-Electricity Production and Simultaneous Wastewater Treatment	Mr. Matthus Walter	BRB
131	Improvement of EFB Palm Fiber Pelletizing with Castor meal	Dr. Lien-Chieh Lee	CHN



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ORAL PRESENTATION SCHEDULE

WEDNESDAY 22 DECEMBER 2021

Code	Parallel Session 3 RE3  https://chat.whatsapp.com/HOillHziX4bHsO1uYFhS2G	Chair: Host:	
	Presentation Title	Presenter	Country
130	Transesterification of tung oil (<i>Vernicia montana</i>) for biodiesel production using ultrasonic mixing and microwave irradiation	Dr. Kittikorn Sasujit	THA
115	Effects of coaxial electrode design for creating electric field to acceleration in biodiesel preparation from cottonseed oil	Mr. Piyaphong Yongphet	THA
120	Physicochemical characterization of biochar produced from various agroresidues: Implications for sustainable applications	Mr. Mari Selvam S	IND
102	Cultivation of microalgae <i>Spirulina platensis</i> biomass using palm oil mill effluent for phycocyanin productivity	Dr. Gaanty Pragas Maniam	MYS
123	Effect of coconut shell biochar in gasification kinetics of palm kernel shells in fixed-bed downdraft gasifier	Mr. Abhijeet Pathy	IND
127	Properties enrichment of fuel pellets composed of waste polyethylene terephthalate and lignite using a pelletizing-torrefaction process	Dr. Ukrit Samaksaman	THA
134	An overview on concrete containing glass waste as a sustainable materials	Dr. Rahimah Embong	MYS
147	Experiment investigation of Microwave Rotary Dryer for Chili Pepper (<i>Capsicum</i> spp).	Miss Thunvarat Pradechboon	THA

Code	Parallel Session 4 SET1  https://chat.whatsapp.com/GhHqYOI5VDUDXUccukTTjG	Chair: Host:	
	Presentation Title	Presenter	Country
210	Controlled synthesis of Zn & Co nanoparticle for polymerization of ethylene	Dr. Muhammad Sheraz Ahmad	PAK
202	Multi- and transgenerational ecotoxicology with <i>Simocephalus vetulus</i> : Hazardous investigation of delafloxacin to longevity under different calcium cation regimes	Mr. Nguyen Tan Duc	JPN
223	Reduction Behavior of Iron Ore by Biochar from Agricultural Wastes with Different Carbon to Oxygen Ratio in the Reduction Process	Miss Ajcharapa Chuanchai	TWN
209	Copper calcium hydroxide nitrate derived from chicken eggshell and their catalytic activity in the removal of aqueous methyl orange	Miss Yiping Han	THA
206	The effects of climate factors on makiang production	Dr. Piyapit Khonkaen	THA
220	Microalgae based Nutrient Recovery from Source Separated Urine: Perspectives towards Closed Loop Biorefinery	Miss Bunushree Behera	IND
208	Enhancing of Polyhydroxybutyrate (PHB) Production from Organic Wastewater by Mixed Microorganism	Dr. Zhu Zhengyong	TWN
226	Development and characterization of chitosan film incorporated with polyphenol rich pineapple peel extract as an active packaging material	Miss Jyoti	IND



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ORAL PRESENTATION SCHEDULE

WEDNESDAY 22 DECEMBER 2021

Code	Parallel Session 5 SET2  https://chat.whatsapp.com/EPsOYYoDwaoAsJzdxVu9f	Chair: Host:	
	Presentation Tittle	Presenter	Country
228	Factors Affecting Household's Willingness to Pay for the Fish Conservation Zones a case study from Khong District, Champasak Province, Laos	Mr. Vannasinh Souvannasouk	LAO
215	Enhanced photocatalytic degradation of organic pollutants under UV and visible light using doped Ti:Ash nanoparticles	Mr. Abdulkarim Suliman	LBY
219	Farmers' Adoption of the System of Rice Intensification in Luang Prabang Province, Lao People's Democratic Republic	Mr. Vilaphone Kanyasone	LAO
204	Isolation and characterization of protozoa and rotifer that prey on toxic cyanobacteria Microcystis	Miss Somsri Saenchan	JPN
214	The impacts of climate uncertainty change in northern Thailand	Dr. Piyapit Khonkaen	THA
224	Effect of Temperature on Bioplastic Degradation with High Concentration of Sodium Hydroxide Solution	Dr. Chen-Yeon Chu	TWN
203	A Bayesian model for predicting the growth of toxic Microcystis from air temperature and trophic state index	Miss Le-Huynh Truc-Ly	JPN
218	Characterization of bacterial composition of crude oil-contaminated soil from Tabasco and Burgos regions in Mexico	Dr. Lourdes Vital Lopez	MEX

Code	Parallel Session 6 ATI1  https://chat.whatsapp.com/K6n1CswxoXNLAu1qdqsaWL	Chair: Host:	
	Presentation Tittle	Presenter	Country
301	Effect of Harvest Season on Quality of 'Hawaii' Papaya Fruit	Dr. Jenjira Chumpookam	THA
315	The appropriate food formula for raising native earthworms (<i>Amyntas arenulus</i>)	Miss Pimphan Wasunan	THA
333	Reduction Of Microbial Contamination in Organic Lettuce (<i>Lactuca Sativa L.</i>) by Microbubble Ozone Washing	Mr. Worawit Sornchai	THA
334	Anticancer effect of <i>Enterococcus durans</i> as newly bioprophylactic probiotic strains utilized from Thai infant feces	Mr. Kantapich Srikham	THA
302	Analysis of potentials and strategic management of frog culture: A case study of happy frog farm, Doi Saket, Chiangmai, Thailand	Dr. Daracha Thiammueang	THA
303	The evaluation of growth performance, feed utilization and flesh quality of Red tilapia (<i>Oreochromis niloticus</i>) fed with different feeding regime	Dr. Tipsukhon Pimpimol	THA
304	Effect of densities on dissolved oxygen concentrations in sea bass ponds cultured with recirculating	Dr. Niwooti Whangchai	THA
305	Optimized alternative mycoprotein extraction by hot water treatment from <i>Schizophyllum commune</i> using response surface methodology	Mr. Nuttapong Saetang	THA



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ORAL PRESENTATION SCHEDULE

WEDNESDAY 22 DECEMBER 2021

Code	Parallel Session 7 AT12  https://chat.whatsapp.com/HyjDqi0mmu255Eh5D7ZvPr	Chair: Host:	
	Presentation Tittle	Presenter	Country
306	Compensatory growth response with switching levels of dietary protein in common lowland frog, <i>Rana rugulosa</i>	Dr. Rungkan Klahan	THA
309	Technical Efficiency of Sustainable Broiler Production in Northern Thailand	Miss Kittichainarong Phonpawi	THA
310	Technical Efficiency of Nursery Swine Production of VPF Group (1973) Co., Ltd. Chiang Mai Province	Mr. Weerasak Tachai	THA
311	Using of beef scrap and bone meal for Spotted Babylon snail (<i>Babylonia areolata</i>) diets	Dr. Krasindh Hangsapreurke	THA
312	Effect of dietary medical cannabis (<i>Cannabis sativa L.</i>) supplementation in drinking water on muscle traits, blood biochemistry and immune-related gene expression of Thai native chicken	Dr. Chompunut Lumsangkul	THA
313	The impact of <i>Ficus pumila</i> crude extracts on sun hemp seed germination and phytochemical composition	Miss Nirutcha Suriya	THA
314	Identification of <i>Astraeus hygrometricus</i> mushroom species in Thailand by HAT-RAPD technique	Miss Parinyanuch Pinnil	THA
316	Effect of kaffir lime essential oil and chitosan coating on the disease severity index, physicochemical properties and consumer acceptability of mango fruit after postharvest	Mr. Loetchai Chit-aree	THA

Code	Parallel Session 8 AT13  https://chat.whatsapp.com/JeG6dYCy1LoAu7GvLPSrEM	Chair: Host:	
	Presentation Tittle	Presenter	Country
329	Industrial applications of microalgae <i>Chlorella</i> sp. For cosmetics and skincare products	Dr. Yamuna Ganeson	MYS
321	Investigations on the nutrient and suitable forms of napier grass as fish feed ingredient	Mr. Pimwaranee Kuangkam	THA
328	Reduction of microbial contamination in organic lettuce (<i>Lactuca sativa</i> L.) By microbubble ozone washing	Mr. Worawit sornchai	THA
345	Effects of corn silage-ensiled with <i>bacillus subtilis</i> on rumen fermentation characteristics by in vitro technique	Miss Chanya Plumejai	THA
352	Biohydrogen production using algae: potentiality, mechanism, strategies, economics and challenges	Mr. Nageshwari Krishnamoorthy	IND
358	Recent advances in edible coating for fresh produce: A review	Mr. Ajay V. Chinchkar	IND
356	Green pressure processing of fruit juices using microfluidization: quality, safety and preservation	Mr. Sukh Veer Singh	IND
327	Marine cyanobacteria for novel bioactive compounds with pharmaceutical applications	Dr. Natanamurugarj Govindan	MYS



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ORAL PRESENTATION SCHEDULE

THURSDAY 23 DECEMBER 2021

Code	Parallel Session 9 RE4  https://chat.whatsapp.com/BeSjsa4mdseBZyYoFxTvRC	Chair: Host:	
	Presentation Tittle	Presenter	Country
143	The Economic Impact Analysis of Bioethanol Production Utilizing Sunflower Stalk	Miss Nopmallee Taechawatchananont	TWN
128	Effect of Split Injection on Combustion and Emission Characteristics of DI - HCCI Engine Powered by Coconut Shell Oil	Dr. S. Gowthaman	IND
132	Experimental investigation of a small gas engine fueled with pyrolysis gas from oil palm frond biochar	Dr. Nigran Homdoun	THA
149	Bio-hydrogen production from Microbes and Future Scope	Dr. Poornachandar Gugulothu	IND
167	Enhancement in the photostability of dye sensitized solar cell under different natural dyes	Miss Pattranan Junluthin	THA
239	Conceptual Design and Rationale for an Interdependent Farm Machinery-Agrivoltaics Based Peer-to-Peer Concept in line with Circular Economy to Mitigate Smog Problem in Northern India	Dr. Nallapaneni Manoj Kumar	HKG
151	Effect of biogas effluent from durian residues combined with chicken manure on soil chemical properties, growth and nutrient concentrations of Lettuce	Dr. Wikanya Prathumyot	THA
263	Coagulation-flocculation sequential with Solar photo-Fenton processes for the dairy wastewater treatment	Dr. Adishkumar Somanathan	IND

Code	Parallel Session 10 RE5  https://chat.whatsapp.com/LgtI9aOLF0wCyV48a4tJY5	Chair: Host:	
	Presentation Tittle	Presenter	Country
109	Development of dye-sensitized solar cell utilizing natural dye from Marigold flower and Inthanin bok leaves	Miss Glennise Faye C. Mejica	THA
161	Evaluation of the suitability of dye-sensitized solar cell from pandan leaves and peacock flowers	Mr. Navaphon Permngam	THA
238	Technical Efficiency and Metatechnology Ratios of Rubber Farmers in Sub-Tropical Zones in the Upper Northern Provinces of Thailand	Mr. Phattarapong Malawal	TWN
164	Algal Photobioreactor Faades Coupled with BAPV/BIPV in High-rise Urban Buildings Improves Indoor Air Quality and Enables Energy Resilience in Race to Net-Zero	Dr. Nallapaneni Manoj Kumar	HKG
149	Bio-hydrogen production from Microbes and Future Scope	Dr. Poornachandar Gugulothu	IND
140	Zinc Oxide Nanoparticles affect plant growth and some biochemical in Pisum sativum	Dr. Ismail Bezirganoglu	TUR
222	Tuning the surface using palladium based metallosurfactant for hydrogen evolution reaction	Mr. Pradeep	IND
341	Application of Floating Solar Photovoltaic Energy Generation Systems	Dr. RM Sharma	IND



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ORAL PRESENTATION SCHEDULE

THURSDAY 23 DECEMBER 2021

Code	Parallel Session 11 RE6  https://chat.whatsapp.com/HOillHziX4bHsO1uYFhS2G	Chair: Host:	
	Presentation Title	Presenter	Country
240	High performance of biochar derived from agricultural waste modified ZnO composite on adsorptive-photocatalytic removal of Cr(VI) from aqueous solution	Miss Kamonchanok Huangmee	TWN
116	A Synthesis of Biodiesel from Animal Fish Oil and Waste Cooking Oil Materials by Using Sodium Hydroxide Basic Catalyzed and Alcohol Solvents	Dr. Teadkai Kaewpuanga	THA
166	Temperature and time in epoxidation for the production of epoxidized palm oil as a biopolyol source	Mr. Neswati	IDN
157	Photovoltaic thermal system with phase changing materials and MWCNT nanofluids for high thermal efficiency and hydrogen production	Dr. Sabarathinam Shanmugam	CHN
165	Augmenting the Electrochemical Performance of Flexible Supercapacitor Using Acetaminophen as a Redox-additive	Miss Sandhiya M	IND
242	A disposable electrochemical sensor using porous graphene oxide for the determination of nicotinamide adenine dinucleotide	Dr. K. Theyagarajan	IND
137	Gas Chromatographic analysis for the performance evaluation of the palm oil cross-metathesis using 1-octene	Miss Mythili Thangavel	MYS
133	Optimization on trimetallic nanoparticles in anaerobic digestion process for biogas production	Mr. Pramod Jadhav	MYS

Code	Parallel Session 12 SET3  https://chat.whatsapp.com/GhHqYOI5VDUDXUccukTTjG	Chair: Host:	
	Presentation Title	Presenter	Country
212	Estimation of Black carbon contribution to terrestrial and aquatic carbon stock in Western Ghats, India	Mr. Karthik Venkatraman	IND
126	Review of natural fiber suitability for asphalt strength enhancement	Mrs. Shobha	IND
229	Investigation of the Adsorption Characteristics of Theobroma Cocoa Peels Extract Inhibitors on Mild Steel Surfaces by EIS, SEM-EDX, XPS, and Chemical Studies in Acidic Media	Dr. Yuli Yetri	IDN
145	Application of Central Composite Design (CCD) to Optimize Alkali Pretreatment Method of Arthrospira platensis for Enzymatic Degradation and Bioethanol Production	Mr. Numchok Manmai	TWN
360	Effect of mixed minerals supplementation on the growth performance and production cost of common lowland frog (Hoplobatrachus rugulosus) culture	Mr. Teppitag Boonta	THA
148	Influence of the mixing ratio of rice straw and bagasse on slagging characteristics	Dr. Weeranut Intagun	THA
370	Zero Waste agrotourism product in elephant camp Kued Chang Maetaeng, Chiang Mai.	Dr. Krit Phanpanya	THA
269	Sustainable Development Goals and Ecological Footprint for tourism sector in Chiangmai	Dr. Krit Phanpanya	THA



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ORAL PRESENTATION SCHEDULE

THURSDAY 23 DECEMBER 2021

Code	Parallel Session 13 SET4  https://chat.whatsapp.com/EPsOYYoDwaoAsJzdxVu9f	Chair: Host:	
	Presentation Tittle	Presenter	Country
319	Effect of paclobutrazol on the growth of sunflower	Dr. Nimmannoradee Promtong	THA
320	The Correlation between Physical and Chemical Properties of Mamao (<i>Antidesma thwaitesianum</i> Muell. Arg.) cv. 'Nakhonpanom'	Dr. Nimmannoradee Promtong	THA
318	Effect of supplementary diets including iodized salt on the growth performance Metamorphosis and cost benefits of Tadpole (<i>Hoplobatrachus rugulosus</i>) culture	Mr. Boonta Teppitag	THA
217	The Satisfaction Factors of Farmers in Using Soil Analysis Service of the Land Development Regional Office 6	Mr. Anugrah Rizki Pratama	TWN
318	Effect of supplementary diets including iodized salt on the growth performance Metamorphosis and cost benefits of Tadpole (<i>Hoplobatrachus rugulosus</i>) culture	Mr. Boonta Teppitag	THA
214	The impacts of climate uncertainty change in northern Thailand	Dr. Piyapit Khonkaen	THA
000	Sustainable Utilization and Ex-Situ Conservation strategies for <i>Antrodia cinnamomea</i> : An Endemic Medicinal Mushroom in Taiwan	Dr. K.J. Senthil Kumar	TWN
302	Analysis of potentials and strategic management of frog culture: A case study of happy frog farm, Doi Saket, Chiangmai, Thailand	Dr. Daracha Thiammueang	THA

Code	Parallel Session 14 ATI4  https://chat.whatsapp.com/K6n1CswxoXNLAu1qdgqaWL	Chair: Host:	
	Presentation Tittle	Presenter	Country
326	Diversity of protozoa related to water quality in Mae Moei Reservoir, Mae Tha District, Lamphun Province	Dr. Phitsanuphakhin Chaimongkhon	THA
332	Effects of Proteinase and Phytase enzyme supplemented food on Growth, Survival and Digestibility of hybrid catfish (Female <i>Clarias macrocephalus</i> X Male <i>Clarias gariepinus</i>)	Dr. Krasindh Hangsapreurke	THA
344	Upgrading tilapia production from biofloc system to premium product	Dr. Nissara Kitcharoen	THA
347	Optimization of Cocoa Butter Extraction Using Response Surface Methodology and Box-Behnken Design: Food and Cosmetics Industries	Dr. Korawit Chaisu	THA
348	Application of biochar and food compost in cultivation of <i>Ipomoea aquatica</i> cultivar Realpai in pesticide contaminated soil	Dr. Siwaporn Meejoo Smith	THA
349	Off-flavor, nutrient substance removal performance and microbial diversity of bioreactor packed with volcanic rock and water hyacinth in aquaculture pond system	Dr. Udomluk Sompong	THA
353	Effect of quercetin to induce gene expression throw RIG-I and TRL7 pathway during PRRSV infection	Miss Wilawun Ruansit	THA
354	Preparation of crosslinking hydrogel membrane based on poly(vinyl alcohol) used for soilless culture application	Dr. Narumon Seepunkai	THA



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ORAL PRESENTATION SCHEDULE

THURSDAY 23 DECEMBER 2021

Code	Parallel Session 15 AT15  https://chat.whatsapp.com/HyjDqi0mmu255Eh5D7ZvPr	Chair: Host:	
	Presentation Tittle	Presenter	Country
355	Anticancer and antioxidant efficacies of Enterococcus durans as newly bioprophylactic probiotic strains devired from infant feces	Mr.Kantapich Srikham	THA
359	A comparative study of the nutritional composition, antioxidant, thermal, morphological and diffraction properties of selected cucurbit seeds	Mrs. Sanghmitra R. Gade	IND
360	Analysis of Technical Efficiency of Soybean Production in Chiang Mai Province, Thailand.	Mr. Emmanuel Alorzuke	THA
361	Combined application of organic and inorganic fertilizer enhances fruit yield of tomato	Mr. Sushan Chowhan	BGD
362	Recent Advancements in Organic Agriculture: Biotechnological Aspects and Updated Report	Dr. Navytchmathra Gammatantrawet	THA
363	Effect of mixed minerals supplementation on the growth performance and production cost of common lowland frog (Hoplobatrachus rugulosus) culture	Mr. Teppitag Boonta	THA
364	Transcriptional engineering of Chlamydomonas reinhardtii for the production of carbon storage metabolites	Dr. Amit Kumar Bajhaiya	IND
366	Sustainable Footprint Development Goals for tourism sector in Chiangmai	Dr. Krit Phanpanya	THA

Code	Parallel Session 16 AT16  https://chat.whatsapp.com/JeG6dYCy1LoAu7GvLPSrEM	Chair: Host:	
	Presentation Tittle	Presenter	Country
339	Preparation and Performance of Chitosan/ Montmorillonite Nanocomposite Proton Exchange Membrane for Microbial Fuel Cell Applications	Dr. Srinivasa popuri	BRB
369	Study on bioactive compound extraction from Spilt Gill mushroom	Miss Burassakorn Tongmee	THA
370	Increasing the productivity of Lanchester's freshwater prawns in an earthen pond by using golden apple snail as food with substrate	Dr. Buncha Tongmee	THA
335	Effect of drying method on antioxidant activities and essential oils from kaffir lime leaves	Miss Thunvarat Pradechboon	THA
337	Ultrasonic assisted Eco-friendly Extraction and Application of Spent Tea Leaves Extract for Silk Dyeing	Dr. Shahid	PAK
340	Farmers' Adoption of the System of Rice Intensification in Luang Prabang Province, Lao People's Democratic Republic	Mr. Vilaphone Kanyasone	LAO
330	Identification of bioactive compounds for natural cosmetic products from Kappaphycus alvarezii	Miss Noor Fasya Syazmimi Sahabudin	MYS
331	Investigation of Kombucha derived Zygosaccharomyces bailii MTCC 8177 under gastrointestinal conditions	Dr. Balasubramanian	IND



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